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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,780	10/15/2003	Robert Pawliuk	101-024	9532
959	7590 11/01/200:	EXAMINER		IINER
LAHIVE & COCKFIELD, LLP. 28 STATE STREET			KAUSHAL, SUMESH	
BOSTON, MA 02109		•	ART UNIT	PAPER NUMBER
			1633	

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/688,780	PAWLIUK ET AL.			
		Examiner	Art Unit			
		Sumesh Kaushal Ph.D.	1633			
The M. Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a)☐ This ac 3)☐ Since the	nsive to communication(s) filed on <u>29</u> tion is FINAL . 2b) ☐ Thinis application is in condition for allowing accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Disposition of C	laims					
4a) Of th 5) ☐ Claim(s 6) ☐ Claim(s 7) ☐ Claim(s 8) ☑ Claim(s	s) 1-13 is/are pending in the application he above claim(s) is/are withdrasts) is/are allowed. s) is/are allowed. s) is/are rejected. s) is/are objected to. s) 1-13 are subject to restriction and/or	awn from consideration.	: :			
Application Pap						
10) The dra Applicar Replace	ecification is objected to by the Examinuming(s) filed on is/are: a) action and any not request that any objection to the ment drawing sheet(s) including the correspondent or declaration is objected to by the E	ccepted or b) objected to by the E e drawing(s) be held in abeyance. See ection is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35	5 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of Refer	rences Cited (PTO-892)	. 4) Interview Summary	(PTO-413)			
2) Notice of Drafts	sperson's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Mail Da				

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-4, drawn to a method for treating arthritis via a method of in-vivo based gene therapy, classified in class 514, subclass 44.

II. Claims 5-13, drawn to method for treating arthritis via a method of ex-vivo based cell therapy, classified in class 424, subclass 93.21.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are distinct. Inventions are distinct if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method in-vivo base gene therapy requires the genetic modification of cells in-vivo via administering the viral vectors to a subject, whereas the method of ex-vivo based cell requires the transplantation of genetically modified cells to the affected site. These methods require different material and protocols, which are of patentably distinct uses. For example the cell-based therapy requires the isolation of host cells prior to transplantation, which is not required for in-vivo base gene therapy. Thus these inventions are patentably distinct and are of separate uses, since the use of one is not required for other.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Claims 2 and 6 are generic to a plurality of disclosed patentably distinct species comprising *HIV*, *FIV*, *SIV*, *BIV*, *EIAV* vectors. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Claims 3 and 5 are generic to a plurality of disclosed patentably distinct species comprising soluble Interleukin-1.alpha. Receptor Type I, Soluble Interleukin-1.alpha. Receptor Type II, Interleukin-1.alpha. Receptor Antagonist Protein (IRAP), Insulin-Like Growth Factor (IGF), Tissue Inhibitors of Matrix Metallo-Proteinases (TIP)-1, -2, -3, -4, Bone Morphogenic Protein (BMP)-2 and -7, Indian Hedgehog, Sox-9, Interleukin-4, Transforming Growth Factor (TGF)-.beta., Superficial Zone Protein, Cartilage Growth and Differentiation Factors (CGDF), Bcl-2, Soluble Tumor Necrosis Factor (TNF)-- a Receptor, Fibronectin and/or Fibronectin Fragments, Leukemia Inhibitory Factor (LIF), LIF binding protein (LBP), Interleukin-4, Interleukin-10, Interleukin-11, Interleukin-13, Hyaluronan Synthase, soluble TNF-.alpha. receptors 55 and 75, Insulin Growth Factor (IGF)-1, activators of plasminogen, urokinase plasminogen activator (uPA), parathyroid hormone-related protein (PTHrP), and platelet derived growth factor (PDGF)-AA -AB or -BB. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumesh Kaushal Ph.D. whose telephone number is 571-272-0769. The examiner can normally be reached on Mon-Fri. from 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on 571-272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUMESH KAUSHALPATENT EXAMINER

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